	Application No.	Applicant(s)
	10/826,589	SEIDL ET AL.
Notice of Allowability	Examiner	Art Unit
	Hiep T. Nguyen	2187
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (of the Office or upon petition by the applicant. See 37 CFR 1.313	ars on the cover sheet wi (OR REMAINS) CLOSED in or other appropriate commit GHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
1. $\boxtimes$ This communication is responsive to <u>the communication file</u>	ed 4/16/04.	
2. The allowed claim(s) is/are <u>1-20</u> .		
<ul> <li>3. Acknowledgment is made of a claim for foreign priority un</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents</li> </ul>	been received. been received in Application	on No
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.	
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review	w ( PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
<ul><li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li></ul>		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F		
Attachment(s)	E 🗆 Nation of la	sformal Datast Application (DTO 459)
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		uformal Patent Application (PTO-152) ummary (PTO-413),
	Paper No.	/Mail Date .
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>	8), 7. ∐ Examiner's	Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  Output  Description:  Deposit of Biological Material	8. ⊠ Examiner's 9. ☐ Other	Statement of Reasons for Allowance
	5. C Oulei	•

Application/Control Number: 10/826,589 Page 2

Art Unit: 2187

## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance:

Claims 1-20 are allowed over the prior art of record because none of the prior art of record teaches or fairly suggests the claimed feature of using a register bits to identify the portions of the first object cache that include live objects that were not processed so that the first object cache will be rescanned in only the portions of the first object cache that are identified by the bits set in the register during an in-cache garbage collection process as recited in the independent claim 1, lines 2-9; claim 7, lines 2-10; claim 12, lines 2-12; and claim 17, lines 3-11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - a. Wright et al, 6,950,838, teaches a method of locating references and roots for in-cache garbage collection.
  - b. Alpern et al., 6,470,361, teaches a method and apparatus for performing general garbage collection using middle-aged objects.
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hiep T. Nguyen whose telephone number is (571) 272-4197. The examiner can normally be reached on Monday-Friday from 6:30 AM-3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2187

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hiep T Nguyen Primary Examiner Art Unit 2187

HTN